MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

## SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

**FEBRUARY, 1928**

J. A. BROWN, DIRECTOR

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# FEBRUARY 1928

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O C Sea level and 45° Latitude | | | | Thermometer Cent. | | | Bright Sunshine | Rain |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | Mean | Max. | Min. | Min on grass | hrs. | m.m. |
| 1 | 765.7 | 763.6 | 762.8 | 764.0 | 18.6 | 13.9 | | 6.4 | |
| 2 | 757.9 | 756.7 | 757.4 | 757.3 | 20.0 | 16.3 | | 0.0 | |
| 3 | 7.1 | 5.9 | 8.1 | 7.0 | 22.8 | 12.3 | | 2.5 | 37.07 |
| 4 | 9.7 | 8.7 | 761.2 | 9.9 | 18.1 | 12.2 | | 1.8 | 18.79 |
| 5 | 763.1 | 762.8 | 3.3 | 763.1 | 18.2 | 12.1 | | 7.6 | 7.82 |
| 6 | 762.2 | 759.7 | 759.2 | 760.5 | 18.2 | 12.1 | | 9.0 | |
| 7 | 756.7 | 7.4 | 8.2 | 757.4 | 16.4 | 11.9 | | 0.0 | 20.11 |
| 8 | 763.4 | 765.2 | 766.5 | 765.0 | 18.2 | 10.1 | | 0.0 | 3.30 |
| 9 | 6.7 | 5.9 | 7.6 | 6.7 | 13.9 | 10.1 | | 3.1 | 6.11 |
| 10 | 770.6 | 770.1 | 9.9 | 770.2 | 15.6 | 9.6 | | 10.3 | |
| 11 | 769.1 | 766.2 | 765.2 | 766.8 | 15.7 | 10.3 | | 8.4 | |
| 12 | 3.2 | 1.1 | 759.1 | 1.1 | 16.9 | 10.3 | | 0.2 | 0.51 |
| 13 | 758.0 | 758.5 | 760.5 | 759.0 | 16.2 | 13.3 | | 7.2 | 1.27 |
| 14 | 9.0 | 7.6 | 758.6 | 8.4 | 19.2 | 13.9 | | 2.2 | 35.14 |
| 15 | 8.7 | 760.0 | 762.0 | 760.2 | 18.3 | 10.6 | | 1.5 | 14.60 |
| 16 | 758.5 | 754.1 | 753.9 | 755.5 | 18.3 | 12.3 | | 1.2 | 12.19 |
| 17 | 6.0 | 8.5 | 761.7 | 8.7 | 17.1 | 11.4 | | 7.1 | 4.88 |
| 18 | 764.2 | 763.4 | 4.7 | 764.1 | 17.1 | 9.4 | | 6.3 | |
| 19 | 4.0 | 2.5 | 3.3 | 3.3 | 17.9 | 12.8 | | 9.2 | |
| 20 | 1.8 | 0.8 | 0.6 | 1.1 | 18.4 | 14.3 | | 0.4 | 6.48 |
| 21 | 759.3 | 760.1 | 760.8 | 760.0 | 16.8 | 11.3 | | 4.6 | 2.28 |
| 22 | 7.6 | 757.2 | 758.8 | 757.9 | 18.2 | 9.4 | | 0.7 | 12.62 |
| 23 | 8.6 | 7.2 | 7.4 | 7.7 | 13.7 | 7.0 | | 5.0 | 34.30 |
| 24 | 3.5 | 3.0 | 7.8 | 4.8 | 13.4 | 6.8 | | 0.0 | 43.68 |
| 25 | 761.9 | 762.5 | 764.1 | 762.8 | 13.6 | 6.2 | | 1.2 | 10.28 |
| 26 | 764.2 | 763.7 | 763.2 | 763.7 | 13.5 | 7.4 | | 5.5 | 30.82 |
| 27 | 756.4 | 755.8 | 757.2 | 756.5 | 12.7 | 7.8 | | 0.0 | 22.34 |
| 28 | 9.8 | 760.7 | 765.0 | 761.8 | 11.8 | 6.8 | | 0.6 | 29.40 |
| 29 | 768.4 | 8.4 | 9.7 | 8.8 | 12.2 | 3.9 | | 6.1 | 0.76 |
| | 761.22 | 760.66 | 761.65 | 761.10 | 16.60 | 10.41 | | 3.73 | 12.23 |

BAROMETER

Maximum 770.6 on 10th

Minimum 753.0 on 24th

THERMOMETER

Maximum 22.8 on 3rd

Minimum 3.9 on 29th

RAINFALL

Maximum 43.68 on 24th

Number of days with rain 22, thunderstorms 3, gales 0

# FEBRUARY 1928

## METEOROLOGICAL REGISTER

| Date | Dry Bulb Cent. (Corrected) | | | | Wet Bulb Cent. (Corrected) | | | Elasticity of Vapor m.m. | | | | Relative Moisture per cent. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | Mean | 8:30 | 2:30 | 8:30 | 8:30 | 2:30 | 8:30 | Mean | 8:30 | 2:30 | 8:30 | Mean |
| 1 | 16.7 | 19.2 | 17.1 | 17.7 | 12.1 | 15.6 | 13.3 | 8.7 | 11.0 | 9.8 | 9.8 | 61 | 67 | 69 | 66 |
| 2 | 19.2 | 20.1 | 17.8 | 19.0 | 16.9 | 16.0 | 15.9 | 12.9 | 11.1 | 12.4 | 12.1 | 78 | 64 | 82 | 75 |
| 3 | 14.8 | 16.7 | 15.9 | 15.8 | 12.7 | 15.0 | 14.2 | 9.6 | 11.5 | 10.9 | 10.7 | 76 | 81 | 81 | 79 |
| 4 | 12.3 | 16.4 | 13.4 | 14.0 | 11.7 | 14.2 | 12.7 | 9.9 | 10.7 | 10.5 | 10.4 | 93 | 77 | 91 | 87 |
| 5 | 15.6 | 16.9 | 14.9 | 15.8 | 13.7 | 13.4 | 12.7 | 10.6 | 9.4 | 9.7 | 9.9 | 81 | 66 | 77 | 75 |
| 6 | 13.9 | 16.1 | 13.7 | 14.6 | 12.1 | 11.8 | 10.1 | 9.3 | 8.0 | 7.3 | 8.2 | 79 | 59 | 63 | 67 |
| 7 | 14.9 | 11.9 | 12.0 | 12.9 | 10.2 | 11.5 | 10.7 | 17.2 | 9.9 | 8.8 | 12.0 | 56 | 95 | 84 | 78 |
| 8 | 12.3 | 13.2 | 11.7 | 12.4 | 10.7 | 10.7 | 9.6 | 8.6 | 8.2 | 7.7 | 8.2 | 81 | 72 | 75 | 76 |
| 9 | 14.5 | 15.4 | 10.6 | 13.5 | 10.8 | 12.1 | 9.4 | 7.7 | 8.7 | 8.2 | 8.2 | 63 | 67 | 85 | 72 |
| 10 | 13.6 | 14.9 | 11.6 | 13.4 | 9.9 | 10.1 | 8.9 | 7.3 | 7.0 | 7.2 | 7.2 | 63 | 55 | 71 | 63 |
| 11 | 13.9 | 15.9 | 13.9 | 14.6 | 11.2 | 12.7 | 12.0 | 8.3 | 9.1 | 9.3 | 8.9 | 71 | 67 | 79 | 72 |
| 12 | 14.3 | 15.4 | 14.9 | 14.9 | 11.3 | 12.8 | 10.7 | 8.7 | 9.6 | 7.4 | 8.6 | 73 | 73 | 59 | 68 |
| 13 | 18.6 | 18.7 | 16.1 | 17.8 | 13.4 | 15.3 | 14.1 | 8.6 | 10.8 | 10.6 | 9.9 | 53 | 69 | 79 | 67 |
| 14 | 16.3 | 11.9 | 14.4 | 14.2 | 12.9 | 11.2 | 12.1 | 9.2 | 9.4 | 9.2 | 9.3 | 66 | 91 | 75 | 77 |
| 15 | 15.2 | 16.5 | 15.6 | 15.8 | 12.4 | 12.3 | 12.2 | 9.5 | 8.5 | 8.5 | 8.8 | 71 | 64 | 66 | 67 |
| 16 | 15.6 | 15.7 | 12.1 | 14.5 | 12.2 | 13.5 | 11.6 | 8.7 | 10.1 | 9.9 | 9.9 | 66 | 76 | 93 | 78 |
| 17 | 11.9 | 13.2 | 10.9 | 12.0 | 9.5 | 9.3 | 6.8 | 7.5 | 6.9 | 5.5 | 6.6 | 72 | 61 | 67 | 63 |
| 18 | 14.2 | 17.6 | 14.3 | 15.4 | 11.0 | 13.8 | 11.1 | 8.1 | 9.6 | 8.1 | 8.6 | 67 | 64 | 67 | 66 |
| 19 | 17.2 | 18.2 | 14.4 | 16.6 | 13.2 | 14.1 | 12.1 | 9.1 | 9.6 | 9.2 | 9.3 | 62 | 62 | 75 | 66 |
| 20 | 16.5 | 15.4 | 14.6 | 15.5 | 13.3 | 14.2 | 11.3 | 9.5 | 11.3 | 5.7 | 8.8 | 68 | 87 | 66 | 74 |
| 21 | 13.0 | 12.7 | 13.2 | 13.0 | 10.1 | 9.6 | 9.4 | 7.7 | 7.3 | 7.0 | 7.3 | 69 | 68 | 62 | 66 |
| 22 | 11.9 | 11.3 | 12.4 | 11.9 | 10.1 | 10.3 | 8.8 | 8.1 | 8.8 | 6.6 | 7.8 | 77 | 88 | 62 | 76 |
| 23 | 9.9 | 11.9 | 8.4 | 10.1 | 8.9 | 9.8 | 6.9 | 8.0 | 7.8 | 6.7 | 7.5 | 88 | 75 | 82 | 82 |
| 24 | 8.5 | 8.8 | 7.7 | 8.3 | 7.4 | 7.8 | 7.1 | 7.2 | 7.4 | 7.3 | 7.3 | 86 | 88 | 93 | 89 |
| 25 | 8.1 | 8.9 | 7.8 | 8.3 | 7.1 | 7.9 | 7.2 | 7.1 | 7.3 | 7.3 | 7.2 | 88 | 86 | 92 | 89 |
| 26 | 10.0 | 11.7 | 8.6 | 10.1 | 7.6 | 8.8 | 6.8 | 6.5 | 7.0 | 6.5 | 6.7 | 72 | 68 | 78 | 73 |
| 27 | 10.8 | 8.6 | 7.7 | 9.0 | 7.4 | 7.6 | 6.7 | 6.1 | 7.2 | 6.8 | 6.7 | 63 | 87 | 87 | 79 |
| 28 | 12.1 | 10.1 | 7.5 | 9.9 | 7.8 | 8.2 | 5.1 | 6.0 | 7.2 | 5.4 | 6.2 | 57 | 78 | 70 | 68 |
| 29 | 7.2 | 9.8 | 7.5 | 8.2 | 3.1 | 4.5 | 3.4 | 4.0 | 6.8 | 4.1 | 5.0 | 48 | 48 | 50 | 49 |
| | 13.55 | 14.24 | 12.41 | 13.42 | 10.70 | 11.52 | 10.10 | 8.60 | 8.87 | 8.05 | 8.52 | 70.6 | 72.5 | 74.1 | 72.3 |

Height of Barometer above sea level: 33.7 meters.

" " Thermometers above ground:

Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1·70 m

Height of Rain Gauge: above ground 0.56 m.; above sea level 30 31 m

Gravity Correction — 0.79mm.

Time of readings according to Standard Time of 30th E. Meridian.

# FEBRUARY 1928
# METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0 Overcast—10 | | | | Direction and force of Wind 0—10 | | | Wind per day | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | Mean | 8:30 | 2:30 | 8:30 | Km. | | |
| 1 | 3str | 10ni | 4str. | 6.0 | 1w | 0 | 0 | 86.9 | mod. | lunar halo |
| 2 | 10ni | 10ni | 10ni | 10.0 | 1s | 2e | 1se | 62.2 | rough | |
| 3 | 8str.ni | 6str.ni | 5str.ni | 6.3 | 3s | 5s | 0 | 333.8 | mod. | |
| 4 | 10ni | 8str.ni | 6str.ni | 8.0 | 1s | 4s | 2s | 354.0 | ,, | |
| 5 | 7str.ni | 2 | 6str. | 5.0 | 0 | 1nw | 1w | 198.7 | slight | |
| 6 | 8str.ni | 2str.cu | 0 | 3.3 | 1se | 3w | 1nw | 160.6 | mod. | t.l..r.dy.& n. |
| 7 | 6str.cu | 10ni | 10ni | 8.7 | 1s | 2s | 4s | 356.4 | ,, | |
| 8 | 9ni | 8ni | 8str.cu | 8.3 | 2w | 1 | 1w | 300.2 | rough | rainbow |
| 9 | 10ni | 4str.ni | 8ni | 7.3 | 4w | 3w | 1s | 460.6 | calm | |
| 10 | 1 | 1 | 0 | 0.7 | 0 | 2n | 0 | 190.2 | ,, | |
| 11 | 4ci.str | 5ci.str | 6str. | 5.0 | 1se | 1s | 0 | 62.6 | ,, | |
| 12 | 10ni | 10ni | 10ni | 10.0 | 1s | 0 | 0 | 27.0 | slight | |
| 13 | 6str.cu | 4str.cu | 8str.ni | 6.0 | 1 | 4 | 3 | 258.5 | ,, | |
| 14 | 10ni | 8ni | 10ni | 9.3 | 3s | 1s | 2s | 525.2 | v.rough | |
| 15 | 9ni | 8ni | 2str.cu | 6.3 | 8 | 7 | 4w | 542.6 | mod. | |
| 16 | 8ci.str | 10ni | 10ni | 9.3 | 2s | 3s | 2s | 422.6 | rough | |
| 17 | 6str. | 3str.cu | 0 | 3.0 | 5n | 4n | 1n | 831.6 | light | |
| 18 | 1 | 4str.cu | 2 | 2.3 | 0 | 1w | 0 | 193.3 | calm | hail a.t.l.r. |
| 19 | 1 | 1 | 0 | 0.7 | 0 | 1 | 0 | 237.5 | v. slight | |
| 20 | 10ni | 10ni | 8ni | 9.3 | 1s | 0 | 1s | 238.5 | rough | |
| 21 | 8str.ni | 8str.ni | 2 | 6.0 | 3s | 4s | 3 | 384.1 | slight | |
| 22 | 1 | 9ni | 10ni | 6.7 | 2s | 2s | 5w | 515.3 | mod | |
| 23 | 10ni | 8ni | 10ni | 9.3 | 2s | 1s | 2s | 370.1 | slight | hail a.m. |
| 24 | 10ni | 10ni | 10ni | 10.0 | 1s | 2s | 1s | 227.2 | mod. | hail d. day |
| 25 | 8ni | 10ni | 4str.cu | 7.3 | 1s | 1s | 0 | 266.3 | slight | ,, ,, |
| 26 | 8ni | 6str.cu | 2 | 5.3 | 2w | 1ne | 0 | 191.0 | mod. | ,, ,, |
| 27 | 10ni | 10ni | 10ni | 10.0 | 2s | 2se | 1e | 328.0 | rough | |
| 28 | 8ni | 8ni | 10ni | 8.7 | 4w | 5w | 5w | 621.7 | v. rough | t.l.r.d.dy.&n |
| 29 | 8ni | 6str.cu | 6str.cu | 6.7 | 6nw | 4nw | 4n | 765.2 | rough | |
| | | | | 6.72 | | | | 328.82 | | |

## Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm |
|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 0 | 0 | 2 | 14 | 4 | 5 | 1 | 4 |
| 2:30 | 2 | 1 | 1 | 1 | 11 | 4 | 4 | 2 | 3 |
| 8.30 | 2 | 0 | 1 | 1 | 8 | 2 | 5 | 1 | 9 |
| Totals | 5 | 1 | 2 | 4 | 33 | 8 | 14 | 4 | 16 |

N. B. — Cloud numbers without letters are all cu.
Wind ,, ,, ,, ,, ,, sw.